Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (canceled) A packet optimization method comprising:
generating a metric to indicate a channel condition based on an estimated error rate;
processing the metric to determine optimal packet-size for the channel condition; and
choosing the optimal packet-size corresponding to the processed metric to send to a
requestor.

OK to enter 9/6 + apr 05

2.   (currently amended) ~~The packet optimization~~ A method ~~of claim 1, wherein~~
~~processing further includes~~ comprising:
generating a metric to indicate a channel condition based on an estimated error rate;
processing the metric to determine optimal packet-size for the channel condition, the
processing comprising:
receiving the metric corresponding to the channel condition[;], and
using the received metric to balance a trade-off between the cyclic redundancy
check and re-transmission overhead; and
choosing the optimal packet-size corresponding to the processed metric to send to a
requestor.

3.   (currently amended) The ~~packet optimization~~ method of claim [[1]] 2, wherein
choosing the optimal packet ~~further includes~~ comprises training a neural network or look-up
table to optimally improve system data throughput by selecting a packet corresponding to the
channel condition.

4.   (currently amended) The ~~packet optimization~~ method of claim [[1]] 2, wherein
the optimal packet-size is a packet-size that minimizes both cyclic redundancy check and re-
transmission overhead.